

# **The Effect of Merle's Model in Learning to Shoot High with Handball for Students**

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## **Abstract**

The study consisted of five chapters that contained the first chapter, an introduction to the research and its importance, which was talking about scientific development, with knowledge of science in continuous growth, which makes it imperative for those interested in teaching methods to keep pace with that. Scientific development and achieving its goals by following modern methods, methods and models. The research problem was summarized in the non-use of modern methods, methods and models to keep pace with recent developments, as well as all of that does not take into account the diverse learning and thinking patterns of students. The aim of the current research to prepare an educational curriculum study is to contribute to the definition of a school subject with modern educational soccer hand models. Access to specialized education and physical preparation units. Merl learning model for learning m. Performing the skill of correcting high roller jumping for students of the College of Education Physical Sciences and Sports, which may arise through Development of the teaching methods currently used. The research hypothesis was that there are statistically significant differences between the results of the pre-tests and the dimensions in the development of skills to correct the hand of the high jump ball for both the experimental and control groups in favor of the experimental group. The second semester (theoretical studies) and all related activities included Bonmoj m Wirral. The third chapter was included on (the field of research and methodological procedures), where the researcher dealt with the method of using the experimental groups method of equal type, as the research sample represented students of the second stage of the College of Education, Physical Sciences and Sports - University of the year Al Qar (20 20-20 21) The methods and tools used in the research are covered, in addition to the scope of the procedures being searched, while the included fourth chapter clarifies the results, analyzes and discusses them, including presenting the results of the pre-tests and the dimensions. From the control and experimental groups, the skill of correction is to jump high in handball and discuss it. The study was concluded in the fifth chapter of the conclusions and recommendations that the sport reached to the proposed curriculum of Merle, a positive effect in learning a mahr from correcting the high jump on the hand of the playing field for students. This model gives the learner an opportunity to reflect and analyze and thus reinforce his dominant thinking style. The researcher recommended the possibility of benefiting through attention by using this model in learning and encouragement based on the educational process in the field of sports and moving away from established methods that may cause boredom.

## **Definition of research**

### **Introduction Research and its importance**

The scientific and educational trends take into account the needs and tendencies of the learner and this is confirmed by modern philosophies that adopt several methods and strategies to reach better learning. Teaching methods, methods and strategies are formulated on several types based on some educational concepts and foundations, including the role of the teacher, the nature of the learner, the subject matter, and the individual differences between the learners. Teaching methods are considered as a link between the student's first and second party in the curriculum,

as they help to create a state of positive interaction between them by correctly directing activities and activities and providing the student with experiences through the ability to face different educational situations. . The effective role of the student in education, as modern teaching models have emerged that emphasize the effective role of the student in his education. These models are the Merle model and the Merle sample are one of the well-known models in developing concepts based on inferential reasoning. Where it is considered that the concepts are acquired through deduction or analogy, as it focuses on the audience base and gives learners the opportunity to use this rule in explaining the partial situations through which the teacher can transfer the knowledge of the material to the learner. Handball is a popular and beloved game for all segments of society, which transmits between its practitioners the spirit of competition and recreation between the two teams. Its importance has been included in the curricula of Faculties of Physical Education because it consists of many skills, whether defensive or offensive, as prerequisites for their practice. Therefore it is essential to develop the performance of these basic skills. . The importance of the research lies in the fact that this study will contribute to the definition of a school subject with educational hand models, access to specialized physical and preparatory education, and the Merl educational model, to learn the performance of skills to correct the high jump. For students of the College of Education, Physical Sciences and Sports, which may arise through the development of the teaching methods currently used.

### **Research problem**

Those responsible for the educational process strive to improve traditional teaching methods and increase positive teacher-student interaction. In addition, students rely on memorizing information without understanding it. Because one demands the task in the educational process, which is caring for the learners and for them to have an active role in the educational process from it through the development of creative minds capable of solving problems and making them more independent in decision-making, and this everything comes through the use of modern methods of learning. And through the researcher's follow-up of the results achieved during the past years in the subject of football by hand and frequent meetings with faculty members and students, and this is what I found many difficulties with students to comprehend. Motor skills, new facts and concepts are due to not using modern methods, methods and models to keep pace with recent developments in them. The researcher also felt the experience of learning models (which is the Merle sample) at the undergraduate level and that most researchers could not have all of them had leftover material theory within the classes.

The question is: Can it be successfully applied in practical lessons at the university level and achieve positive results?

### **Research objectives**

#### **The research aims at the following**

1. Preparing the educational curriculum of Merle Bonmouse to learn the skill of correction from the high jump ball by hand for students of the second stage of the College of Education, Physical Sciences and Sports - DhiQar University
2. Identify the differences between the results of the pre-tests and the dimensions in developing skills for correcting the high jump ball in the hands of each of the experimental and control groups for students of the second stage of the Faculty of Education, Physical and Mathematical Sciences. DhiQar University.
3. Identify the differences in the results of the post-tests in developing the skill of shooting the high jump ball in the hands of both the experimental and the control groups.

### **Research hypotheses**

1. There are statistically significant differences between the results of the pre-tests and the dimensions in developing the skill of the high jump and correcting the ball by hand for both the experimental and control groups.
2. There were statistically significant differences between the results of the dimensional tests in skills to correct the high jump ball, however, between the experimental and control groups in favor of the experimental group.

### **Research areas**

- human field: students second stage, Faculty of Physical Education and Sports Science - University of

DhiQar for the academic year 20. 21 20 - 20

- The temporal field: from 2020/12/5 to 2/2/2021
- Spatial field :the indoor sports hall in the College of Physical Education and Sports Sciences, DhiQar University.

## **Studies theory and studies of similar**

### **Theoretical studies**

#### **SpecimenMerl**

This model was designed by David Merle, David Merrill, Robert Tennyson, Robert Tennyson (1977 AD), according to Merle and Tennyson, the primary goal of teaching concepts is to help learners collect conceptual examples and respond to them in one answer, by referring to them by name or symbol, it is the name or symbol of the concept. And that the learner's acquisition of the concept means that he classifies the evidence for the concept in the same way that the teacher classifies it under the concept category. According to Merrill and Tennyson, this classification process necessarily requires presentation of the definition first, and then the presentation of evidence second, so that the learner can use this definition in the process of classifying evidence into examples or members belonging to the class, and others. That does not belong to it. ([1]) Merle's model is defined as an inferential model that focuses on the general rule and then gives learners an opportunity to use this rule in explaining partial situations, or classifying sub-facts, and this requires the teacher to first provide the definition, then examples, and then learners classify these examples into an example They belong to the concept, and others do not belong to the concept, with the reason stated ((2))

#### **(2-1)Phases of the Merle - Tenson model (3)**

1. Determine if teaching the concept is necessary
2. Definition of the concept
3. Gathering evidence of the concept step by collecting examples that belong to the concept and examples that do not belong to the concept.
4. Estimating the difficulty of proving the concept
5. Preparing a diagnostic test to classify the new features of the concept
6. Use the property isolation rule
7. Designing an appropriate strategy for teaching the concept
8. Formative and final evaluation

## **Research methodology and field procedures**

### **Research methodology**

The problem method is the one that determines the approach that the researcher chooses for the purpose of reaching conclusions, and that all phenomena can only be studied by choice through an approach that corresponds to the nature of the problem to be solved. Therefore, the researcher used the experimental method using the experimental and control equal groups method for the pre-test and the dimensions appropriate to the nature of the problem to be solved. (4)

### **Research and Designated Community**

The research community for students of the second stage of the College of Education, Physical Sciences and Sports - DhiQar University for the academic year (20-20-20 21) and the number of (102) students were selected and dealt with them as follows:

- The research sample for the curriculum reached (32) students from two classes (C) and (D) who were deliberately chosen in proportion to their weekly schedule for the handball subject after the absence of one of

the students of Division (D). The subsequent examination and the absence of two students of (C) from the post exam

- Section (D) was chosen as an experimental group, and Section (C) as a control group, in a manner

### **Methods of gathering information and tools used in the research**

Among the important things to complete and complete the experiment are the research tools, which are "the means by which the researcher can collect data and solve his problem to achieve the research objectives, regardless of those tools such as data, samples and devices." (1)

### **Methods of gathering information**

1. Sources and references
2. Tests and standards
3. Information Network (Internet)

### **Auxiliary tools and devices**

1. Handball court
2. 1x Canon 7100 Camcorder
3. Signals
4. Two-hour stopwatch
5. hand balls

### **Tests used in research**

The researcher depended on photographing the apparent form of movement, and then presented the tests to experts for the purpose of evaluation.

### **Exploratory experience**

In order to know the suitability of the tests to the research sample, the sample's response to those tests, the time it takes to perform the test, to identify the auxiliary work staff and to avoid errors that may occur to work, as well as to uncover obstacles that may be encountered when carrying out the tests.

### **Field research procedures**

**test tribal** : was a pre - test skill clapotement and correction of the high jump control of the two groups and pilot on Thursday13/01/2020

### **Research Methodology**

The two Merle models were used in the teaching of the two experimental groups, as the work was carried out by the subject teacher in the college with direct follow-up by the researcher after he had seen the curriculum prepared by the researcher, as well as the control group that was taught by the same teacher in the method of teaching followed, and the educational curriculum took two weeks with two educational units. week educational unit time (90 minutes) was initiated implementation of the educational curriculum on (17/1/2021) until (31/01/2021) model was applied to the experimental group Merl, the model consists of eight steps (need to teach the concept and definition of the concept and the collection Evidence for the concept, assessing the difficulty of the concept, preparing a diagnostic test, isolating the characteristics rule, and designing an appropriate strategy for teaching the concept and evaluation.(

### **Posteriori tests**

After the completion of the educational curriculum was conducted on a sample posttest same search on 2/2/2021 Walt's experimental control group in the closed sports hall, Faculty of Physical Education and Sports Sciences, DhiQar University.

## The fourth chapter

### Presenting and discussing the results

#### Presentation and discussion of the results of the differences between the pre and posttests of the experimental group

Table (1) shows the mean value, the standard deviation, and the value of (t) Calculated between the tribal and posttests of the experimental group

Indication type	Indication level	Values (t) Calculated	Dimensional tests		Pre-tests		Search variables	No
			P	Q <sup>-</sup>	P	Q <sup>-</sup>		
Moral	0 , 00 0	7 , 3	1 , 15	6 , 56	0 , 51	4 , 56	Shoot from jumping high	1

Table No. (1) shows the arithmetic averages, standard deviations and the value (t) calculated for the subsequent pre-tests and the skill of correcting the high jump of the ball in the hands of the experimental group if it reached the arithmetic mean of the pre-test to correct the high jump is (56,4) and the standard deviation \$ (51) 0) while the value of the arithmetic mean in the subsequent test (56,6) and the standard deviation (15,1) with respect to the value (t) The calculated value (3,7) at the level of significance (000,0), which indicates the significance of the differences between the two tests in favor of Subsequent tests, and the researcher believes that this is due to the positive impact towards creating the achievement of the integrity of the information obtained by the students, and the teaching procedures according to the Merle model are concerned with presenting the concepts and ideas at the beginning of each lesson in the form of graphs and pictures and presenting them through advanced educational means. For learning. [(1) Questioning is a useful way to help students think, and Merle also points to the importance of open questions that require analysis. [(2) The researcher attributed that Merle is an integrated educational sample. All this contributed to the success of the learning process and its acquisition. Mahar question and raise tohma Masses.

#### Presentation and discussion of the results of the differences between the pre and post tests of the control group

Table (2) shows the mean value, the standard deviation, and the value of) t (Calculated between the pre and post tests for the control group

Indication type	Indication level	Values (t) Calculated	Dimensional tests		Pre-tests		Search variables	No
			P	Q <sup>-</sup>	P	Q <sup>-</sup>		
Moral	0 , 07 0	3 , 1	0 , 77	4 , 93	0 , 47	4 , 31	Shoot from jumping high	1

Table No. (2) shows the arithmetic averages, standard deviations and the value (t) computed for the Mhar group's post-tests of the raised ball hand control group if it reached the arithmetic mean of the pre-test for pressure (31, 4)

and the standard deviation \$ (47,0) (Whereas the average computational value in the post-test is (93,4) with a standard deviation of (077) with respect to the value of (t). The two tests are for the post-tests. The researcher believes that the control group has achieved significant differences in the research variables between the pre and posttests, and this is logical because the method used by the subject teacher, regardless of its type, certainly has a positive role in the success and education of the student. Students and their development in volleyball skills, even if the method depends on the teacher more than the student, the student's role is to repeat, meaning that the teacher gives ideas, and the students only have to do what he is asked to do. Because practicing the skill and repeating it leads the learner to a bond that he can perform with relative ease and with little focus (3)

### Presentation and discussion of the post-test results for the control and experimental groups

Table No. (3) Shows the average value, the standard deviation, and the value of (t) computed between the value of the post-tests for the experimental and control groups.

Indication type	The level of morale	Values (t) Calculated	Post-tests for the experimental group		Post-tests for the control group		Search variables	No
			P	Q <sup>-</sup>	P	Q <sup>-</sup>		
moral	0 , 00 0	4 , 68	1 , 15	6 , 56	0 , 77	4 , 93	Shoot from jumping high	1

We note from Table No. (3) The value of the arithmetic mean, the standard deviations, and the value (t) computed between the two back tests of the control groups and the experimental Mhar to correct the high jump in handball upon its arrival. Arithmetic average of the pressure ball value on a manual control group (93). 4) and the standard deviation of the amplitude (77,0), while the arithmetic mean of the group and the experiment was (56,6) by a standard standard. The deviation is (15,1), the value of (t), and the difference calculated between the two groups is (68,4), while the level of significance is (0000), which means that there are statistically significant differences. Between the control and experimental groups. 3) There are statistically significant differences between the results of the post-test for the experimental and control groups and for the benefit of the experimental group, and the advantages of the model that help in the learning process because it creates a positive atmosphere where the steps of the model came in a sequential and integrated manner. The teacher has methods that can make teaching positions in the classroom valuable and necessary for students and appropriate to the level of education in the field of interest, as it is a sample of useful tools in enhancing academic achievement and teaching high jump correction skills in handball with Merle model that gave students the opportunity to do activities that help In providing solutions, this helped increase the desire and increase the motivation to achieve and accept educational content effectively and effectively, and to respond to the teacher's instructions and instructions in a large and positive way. Positively for things in students' responses during an assignment. (1)

### Conclusions and recommendations

#### Conclusions

In light of the results of the research and statistical analysis of the data and their discussion, the researcher reached the following conclusions

1. The curriculum proposed in a manner specimen Merl effect in a positive learning m Mhar of correction of jumping high in the hand ball for students second stage Faculty of Physical Education and Sports Science - University of DhiQar.

2. The use of the Merle educational model in learning concepts for second stage students has a positive effect on improving their academic achievement and raising their motor abilities to learn.

### Recommendations

Based on the conclusions shown by the current study, the researcher recommends the following - :

1. Take advantage of the Merle model in the educational unit of the handball for what distinguishes the model in creating positivity in education and allowing the formation of new ideas and decision-making using the information that the student generates.
2. Interest in using this model in learning and encouraging those in charge of the educational process in the sports field and moving away from the adopted methods that may bring boredom.
3. Conducting similar studies using the Merle model for learning dimensions on other samples and other games because of this model's advantages and good characteristics in the educational process.

### Arabic References

1. Ahmad Hussein and Awa Abdel-Gawad: Methods of Teaching Social Studies, House of Culture for Publishing and Distribution, Amman, Jordan, 1990, p. 153.
2. Merle Tennyson (translation) Muhammad Hamad Al-Titi: Teaching the Concepts of Educational Model Design, Dar Al-Amal for Publishing and Distribution, Irbid, Jordan, 2010, p. 29
3. WajihMahjoub: Methods and Methods of Scientific Research, ed. 2. Baghdad, Dar Al-Hikma Printing and Publishing 1989. p. 133
4. His Excellency Judeh Ahmed and GamalYaqoub Al-Youssef: Teaching the concepts of Arabic language, mathematics, science and social education, Dar Al-Jeel, Beirut, Lebanon 1988, p. 225
5. Ali JawadSalloum and Mazen Hassan Salem: Foundations of Scientific Research and Methods for Choosing Hypotheses and Design Experiments, Najaf, Al-Dhiya for Printing and Design, 2011. p. 15<sup>th</sup>

### Foreign References

1. David of Merrill M, And of Robert D. Tennyson Teaching Concepts: An Instructional Design Guide. Educational Technology Publication Englewood Cliffs, New jersey , 1977
2. M, David of Merrill, And of Robert D. Tennyson Teaching Concepts: An Instructional Design Guide. Educational Technology Publication Englewood Cliffs, New jersey , 1977, p5-6 ,
3. HE quality Ahmed and Jamal Al - YousefYacoub : teaching the concepts of language Arabic , mathematics , science , education , social , house generation ,Beirut ,Lebanon , 1988 p225 .
4. Ahmad Hussein and Awa Abd al-Gawad : Methods of Teaching Social Studies , House of Culture for Publishing and Distribution ,Amman ,Jordan , 1990 , p.153
5. Ali Salloum and MazenJawad Hassan Salem :scientific research basics and methods of selection of hypotheses and design experiments,Najaf, Al DiaaFor Printing&Design .2011 ,p15 .
6. WajihMahjoub : Methods and Methods of Scientific Research , ed .2 . Baghdad, Dar Al-Hikma Printing and Publishing .1989 ,p133 .
7. WajihMahjoub: the source of the above , 1989 , p. 110 .
8. Merle - Tenson ) translation ( Muhammad Hamad Al - Titi : Teaching Concepts as an Instructional Design Model , Dar Al -Amal for Publishing and Distribution ,Irbid ,Jordan , 2010 , p29 .
9. M David Merrill, and Robert D: op.cit . 19 77. p 1 6
10. M David Merrill, and Robert D: op.cit . 19 77. p 30